

In the Claims:

Claim 1 (twice amended). A method for data transmission via a radio interface in a radio communications system, which comprises the following steps:

*B<sup>1</sup>* assigning one connection via a radio interface a given number of at least two data channels, whereby the data channels can be distinguished by an individual spreading code;

transmitting in the data channels data symbols and, in addition, training sequences with known symbols; and

utilizing for at least two of the data channels of the connection one common training sequence different from training sequences of other connections.

*B<sup>n</sup>* Claim 11 (twice amended). A radio station for data transmission in a radio communications system via a radio interface, comprising:

a control device for assigning at least two data channels to a connection in a radio communications system;

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wherein each data channel can be distinguished by an individual spreading code, and

wherein data symbols and, in addition, training sequences with known symbols are transmitted in a data channel;

a signal processor using for at least two of the data channels of the connection one common training sequence different from training sequences of other connections.

Please add the following new claims:

Claim 14. The method according to claim 1, wherein the code is a direct sequence individual spreading code.

Claim 15. The radio station according to claim 11, wherein the code is a direct sequence individual spreading code.